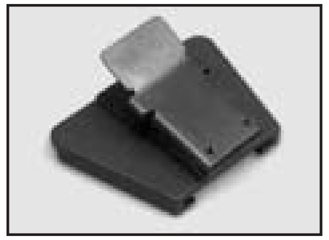


Figure 6

Standard Mounting Plate (FIGURE 6)

AVOX SYSTEMS P/N 266-350A NSN 1660-00-973-4343

Similar in design to P/N 266-216 except that is designed for attachment to flight clothing when a parachute is not worn. WARNING: The mounting plate is not suitable for bailout or ejection.

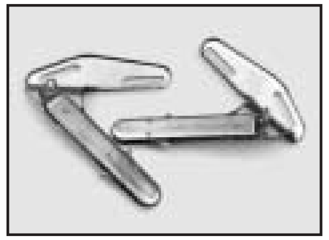


Figure 7

Offset Bayonet Connectors (FIGURE 7)

AVOX SYSTEMS P/N'S 00-5663-1 (LEFT) 00-5663-3 (RIGHT)

One each required per mask assembly.

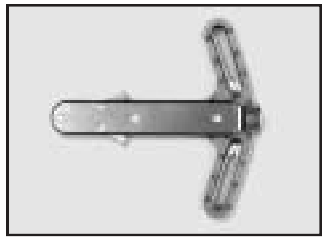


Figure 8

Straight Bayonet Connector (FIGURE 8)

AVOX SYSTEMS P/N 345-01 NSN 1660-00-717-2413 USAF DWG. 63-C-4228

Fits on right or left side. Provides double strap retention to masks and prevents vertical slippage of mask during "G" loading. Two required for assembly.

Figure 9

Bayonet Connector (FIGURE 9)

AVOX SYSTEMS P/N 345-109 (LEFT) NSN 1660-00-440-5550 USAF DWG. 60-C-4467
AVOX SYSTEMS P/N 345-110 (RIGHT) NSN 1660-00-5552 USAF DWG. 60-C-4477

A single-point retention mechanism actuated by simple triggering devices. One on each side required for complete assembly.

WARNING

IMPROPER USE OR IMPROPER MAINTENANCE OF THIS EQUIPMENT MAY RESULT IN SERIOUS INJURY OR DEATH. ANY SERVICE, OVERHAUL OR REPAIR OF AVOX SYSTEMS OXYGEN MASKS SHALL BE DONE ONLY AT APPROPRIATELY EQUIPPED FACILITIES BY SPECIALLY TRAINED PERSONNEL WITH COMPLETE WORKING KNOWLEDGE OF HIGH-PRESSURE AVIATION OXYGEN EQUIPMENT. CONTACT AVOX SYSTEMS FOR NAMES AND LOCATIONS OF AVOX SYSTEMS AUTHORIZED SERVICE CENTERS.

ALL PERSONNEL REQUIRED TO USE MSU-5/P MASKS SHOULD RECEIVE PROPER TRAINING PRIOR TO USING THIS EQUIPMENT. MBU-5/P MASKS SHALL BE USED ONLY WITH AVIATORS BREATHING OXYGEN, PER MIL-PRF-27210.

Copyright 2005, AVOX Systems, All Rights Reserved • Printed in USA • AVIA 5325D 1/05

AVOX Systems

AVOX Systems Inc.
225 Erie Street
Lancaster, NY 14086

Tele: 716 683-5100
Fax: 716 681-1089
www.avoxsys.com

AS9100

Pressure-Breathing Demand Oxygen Mask

USAF DESIGNATION: TYPE MBU-5/P P/N 450-SERIES

The AVOX Systems MBU-5/P crew oxygen mask (predecessor of the MBU-12/P) features an exterior hard-shell with large edge radius, and a silicone rubber face piece that remains soft and pliable at extremely high temperatures as well as at temperatures below -40 degrees F. It meets and exceeds all pertinent quality, reliability, and performance requirements of the U.S. Department of Defense per MIL-M-2727D.

The MBU-5/P provides pressure breathing through an improved combination inhalation/exhalation valve with enhanced reliability, a silicone rubber hose assembly, and a truly effective face seal while providing a comfortable fit. For service instructions see USAF T.O.'s 15x5-4-1-101, 15x5-4-4-12, and 15x5-4-4-13.

Outstanding Features

- Exterior hard-shell construction with soft, silicone rubber face piece and hose assembly
- Improved combination inhalation/exhalation valve
- Compliance with all pertinent requirements of U.S. Military Forces
- Comfortable and effective fit assured by four (4) mask sizes

Ordering Information		
AVOX P/N	NSN P/N	Size
450-191	1660-00-810-3223	Regular-Narrow
450-192	1660-00-811-5259	Regular-Wide
450-193	1660-00-810-3225	Long-Narrow
450-194	1660-00-810-3222	Short-Narrow

Note

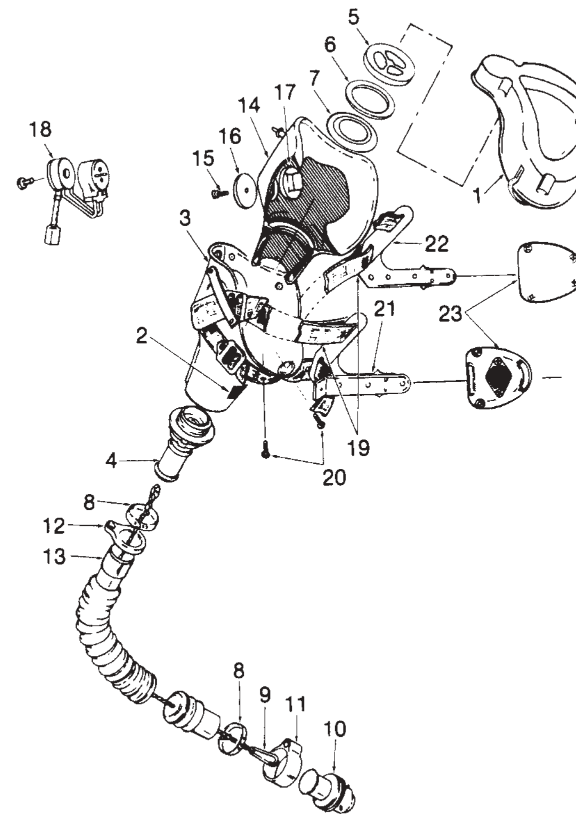
Masks ordered by AVOX Systems part numbers or NSN part numbers **do not** include strap and buckle, microphone, microphone cable, bayonets, or receivers. These parts may be ordered separately under the following part numbers:

- Strap and Buckle, P/N 450-485
- Microphone Type M-100/AIC, P/N 00-1520
- Communication Cable, P/N 00-849
- Bayonets, P/N 00-5663-1 (left)
  P/N 00-5663-2 (right)

See detailed parts and accessories data on pages 2 and 3. Complete mask assemblies are described on page 4.

Detailed Parts Breakdown – MBU-5/P Oxygen Mask

Typical configuration shown for parts identification only.



Parts List		
Item	Part No.	Description
1	450-195	Dust Cover
2	450-197	Nameplate, LN
	450-198	Nameplate, SN
	450-199	Nameplate, RN
	450-200	Nameplate, RW
3	450-09A	Hard-shell, RN
	450-10A	Hard-shell, RW
	450-11A	Hard-shell, LN
	450-12A	Hard-shell, SN
4	211-250D	Valve
5	211-283	Nut
6	211-415	Washer
7	211-408	Washer
8	450-134A	Clamp
9	339-06-1	Cord & Snap Assembly
10	266-114	Connector 3-Pin
11	450-13	Cable Guide – Lower
12	249-425	Cable Guide – Upper
13	00-848	Hose, Silicone 17 1/2”
14	450-05	Face Piece, RN
	450-06	Face Piece, RW
	450-07	Face Piece, LN
	450-08	Face Piece, SN
15*	00-1170	Screw
16*	450-42	Plug – Outside
17*	450-41	Plug – Inside
18	00-1520	Microphone
19	450-485	Strap & Buckle
20	AN520C63-6	Screw
	AN520U83-6	Screw
21	00-5663-1	Bayonet, LH
22	00-5663-2	Bayonet, RH
23	345-301	Receiver

Tool Kit – P/N 450-50	
For field repair of the MBU-5/P Mask. Kit includes:	
Description	P/N
Valve Wrench	211-838-1
Adjuster and Hose Clamp Tool	450-813
Sizing Caliper	450-100
Microphone Insertion Tool	520-615

Standard Military Configurations of MBU-5/P* Masks May Be Ordered Using the Following AVOX Systems Part Numbers		
Size	P/N for USAF	P/N for USN
Regular-Narrow	450-681	450-671
Regular-Wide	450-682	450-672
Long-Narrow	450-683	450-673
Short-Narrow	450-684	450-674

*Includes Microphone, Cable Assemblies, Bayonet Connectors, and Strap and Buckle Assemblies.

Figure 1

Combination Valve (FIGURE 1)

AVOX SYSTEMS P/N 211-250D NSN 1660-00-226-5334 MIL-V-27296A (USAF)

Pressure-breathing, compensated, combination inhalation/exhalation type valve with silicone elastomers. This valve is an integral part of the USAF MBU-5/P Oxygen Mask Assembly.

Figure 2A Figure 2B

Lower Cable Assembly (FIGURE 2A)

AVOX SYSTEMS P/N 00-849 NSN 5995-00-818-5368

A 4-wire coiled communications cable with U-173/U plug attachments to mask microphone and earphones. Terminates with a U-174/U plug. Note: For USN aircraft, order P/N 00-849-1 Cable, which terminates with a U-75-/U plug.

Microphone Type M-100/AIC (FIGURE 2B)

AVOX SYSTEMS P/N 00-1520 MIL-M-27297

Frequency Response	400-5000 Hz
Sensitivity	2.5-5.0 MV
Sound Level at 1/4"	74 db
Impedance	7 +/- 2 ohms
Output	37 μV
Rated Load	7 ohms

Figure 3

Retention Receiver (FIGURE 3)

AVOX SYSTEMS P/N 345-30 NSN 1660-00-717-2412

Similar to P/N 345-301 but features a self-aligning tooth mechanism which permits bayonet assembly a 15-degree range of adjustment after positioning of mask on the face of the wearer.

Figure 4A Figure 4B

3-Pin Bayonet Connector (FIGURE 4A)

AVOX SYSTEMS P/N 266-114 NSN 1660-00-730-2247 USAF DWG. 57-B-3661

U.S. Air Force standard three prong bayonet connector, a part of the MBU-3/P, MBU-4/P, MBU-5/P, and MBU-12/P Mask Assemblies, is designed to mate with the CRU-43A/A and CRU-60/P Connectors.

Connector CRU-60/P (FIGURE 4B)

AVOX SYSTEMS P/N 266-601B NSN 1660-00-076-9662 MIL-C-38271 (USAF)

Designed to mate with the standard 3-pin Bayonet Connector (P/N 266-114), it features an omni-directional disconnect, ensuring proper alignment of the bailout cylinder hose connector. The CRU-60/P is normally mounted on Mounting Plate, P/N 266-216

Figure 5

Parachute Mounting Plate (FIGURE 5)

AVOX SYSTEMS P/N 266-216 NSN 1660-00-656-2522 USAF DWG. 57-B-3657

Dovetail design of the mounting plate ensures positive locking action and prevents possibility of the CRU-60/P Connector flailing about. Fits with AVOX Systems P/N 266-601B, 259-170 and 266-370.